

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY China

REPORT

SUBJECT Chinese Communist Exports *re designs*
& specifications of tool grinders,
spur gear shaping machine, & air
compressor)

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The following leaflets, published by the China National Machinery Import Corporation, Peiping, give photographs, diagrams, and full specifications in English, of machines manufactured in Communist China:

- Spur gear shaping machine, model J-546 (folder)
- Tool grinder, model M6250K (single sheet)
- Three-horsepower air compressor (folder)
- Air Compressor, model 1-10/7 (folder)

27 MAY 1957

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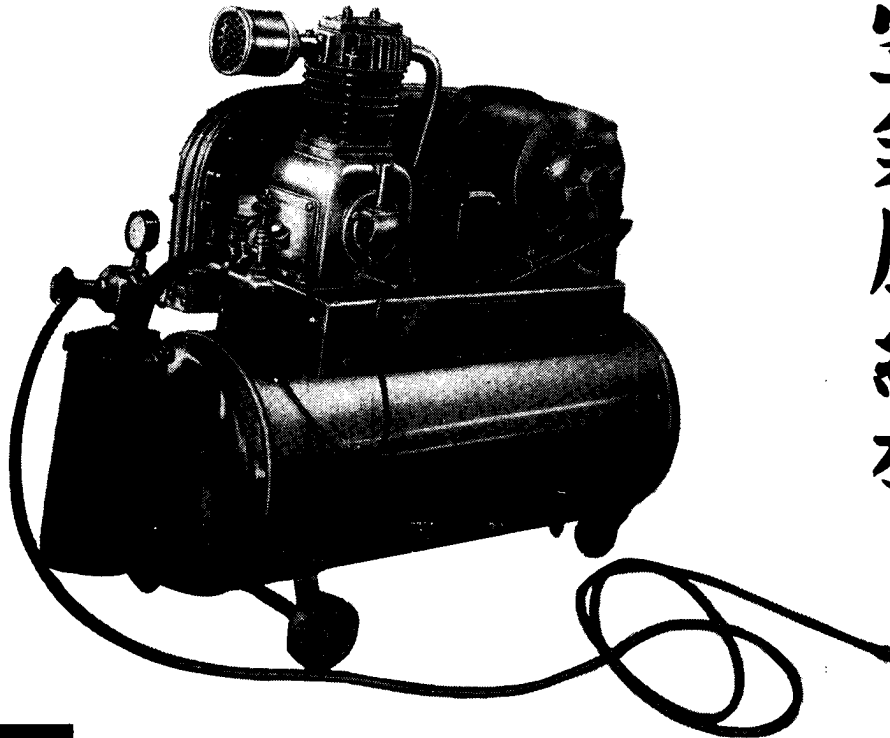
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(Note: Washington distribution indicated by "X"; Field distribution by "#".)

三馬力空氣壓縮機



3 H.P.

AIR COMPRESSOR

中國機械進口公司

CHINA NATIONAL MACHINERY IMPORT CORPORATION

IMPORT — EXPORT

ER-LI-KOW, HSI-CHIAO, PEKING, CHINA

CABLE ADDRESS: "MACHIMPORT" PEKING

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3 H.P. AIR COMPRESSOR

This is a single-cylinder, vertical, air-cooled compressor. Capacity 22 cubic meters free air per hour to pressure of 6 atmospheres.

The machine is driven through V-belt by a 2.2 KW. motor, mounted on a horizontal air reservoir of 150 litre capacity. The unit is easy to move around as it is fitted with wheels.

The flywheel also performs as a fan, effecting cooling efficiently. The crankshaft is fitted with ball bearings, ensuring smooth running. Lubrication is performed by the rotary crankshaft carrying the lubricating oil from the crank case to all the rotating parts.

A pressure gauge and a spring safety valve are fitted onto the air reservoir. When a pre-regulated pressure, range 4 to 6 atm. at will, is exceeded, the machine will be stopped automatically. A filter is provided for filtering exhaust air and a pressure regulating valve for regulating the exhaust pressure.

This machine, as the main source of supply of compressed air in workshops, is used for driving various kinds of pneumatic tools for spraying lacquer, cleaning machines, etc.

Intake Capacity:	22 m ³ /hr. (775 ft ³ /hr.)
Pressure	6 atm. (85 lbs/in ²)
Speed	650 rpm.

Motor:

Type	A. C., 3-phase, Induction type.
Power	2.2 KW.
Speed	1400 rpm.
Voltage	220/380 V.
Frequency	50 cycles

Air Reservoir:

Capacity	150 litres
Pressure	10 atm.
Overall dimension (LxWxH)	1600x540x1080. mm.
Net weight	243 kg.

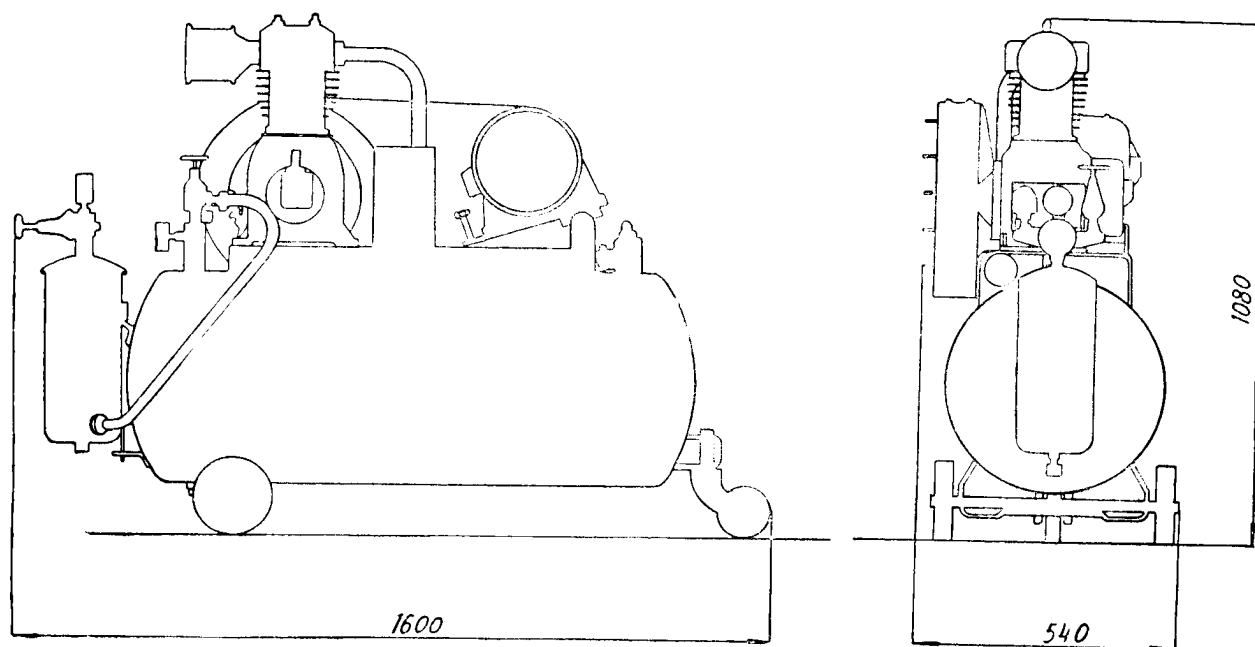


Diagram Showing Overall Dimensions

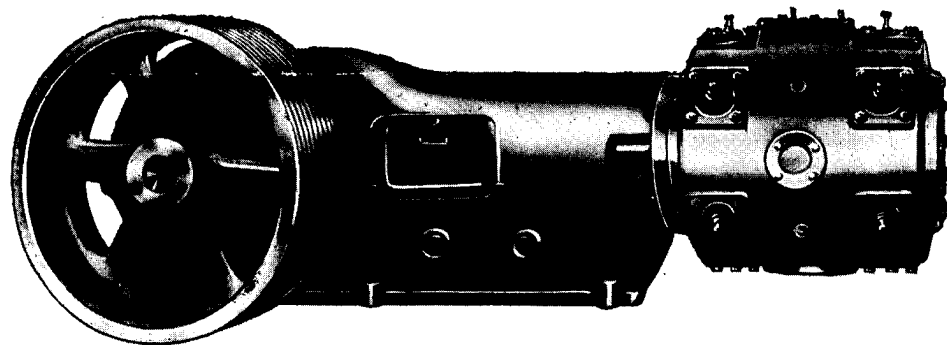
N.B.—For improvement of the machine, we reserve the right to alter either the design or the specification.

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Air Compress

空氣壓縮機

1-10/7 型



中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION
(IMPORT — EXPORT)

ER-LI-KOU, HSI-CHIAO, PEKING, CHINA

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AIR COMPRESSOR

This Air Compressor is of single cylinder, double acting, horizontal, water cooling type. Capacity ¹⁰~~12~~ cubic meters free air per minute to pressure of 7 atmospheres.

It is advisable to supply cooling water by coolant pump, but pipe water may also be used. Lubrication of the various parts of this machine by means of splashing and injection. Supplied with automatic pressure regulating device, the compressor being economical in the consumption of power and ensuring safety against excessive pressure in air receiver.

The machine is used in mines, civil engineering works and industrial plants, wherever compressed air is needed for pneumatic tools.

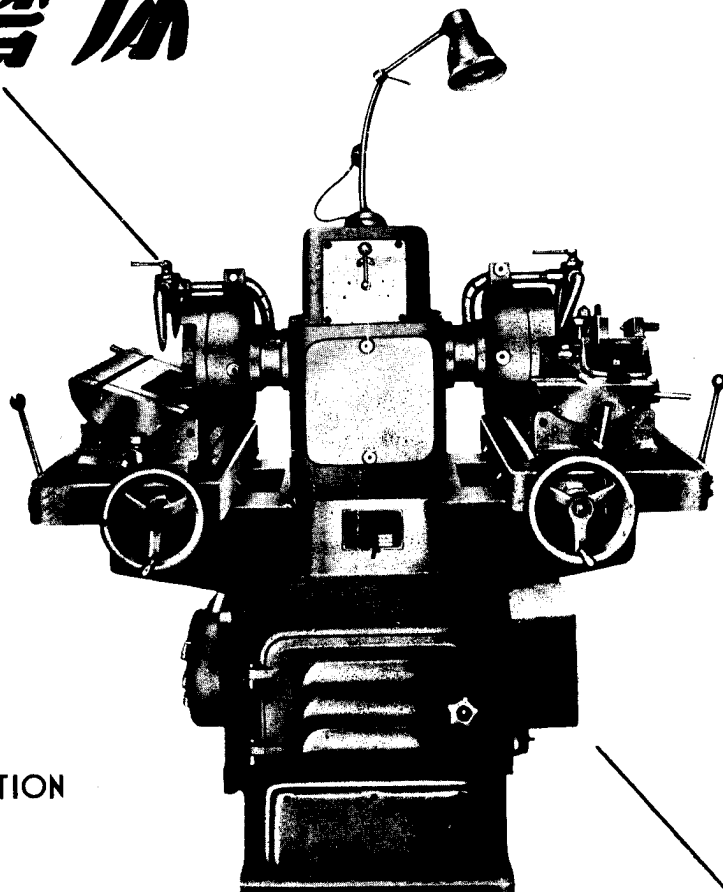
No. of cylinder....	....	....	....	....	....	....	....	....	1
Cylinder bore ....	....	....	....	....	....	....	....	....	350 mm.
Stroke ...	....	....	....	....	....	....	....	....	300 mm.
Intake capacity....	....	....	....	....	....	....	....	....	¹⁰ 12 m ³ /min.
Pressure ....	....	....	....	....	....	....	....	....	7 atm.
Power required....	100 H.P.
Speed....	290 rpm.
Motor recommended: Power	80 KW.
Speed	720 rpm.

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TOOL GRINDER

Model M6250K

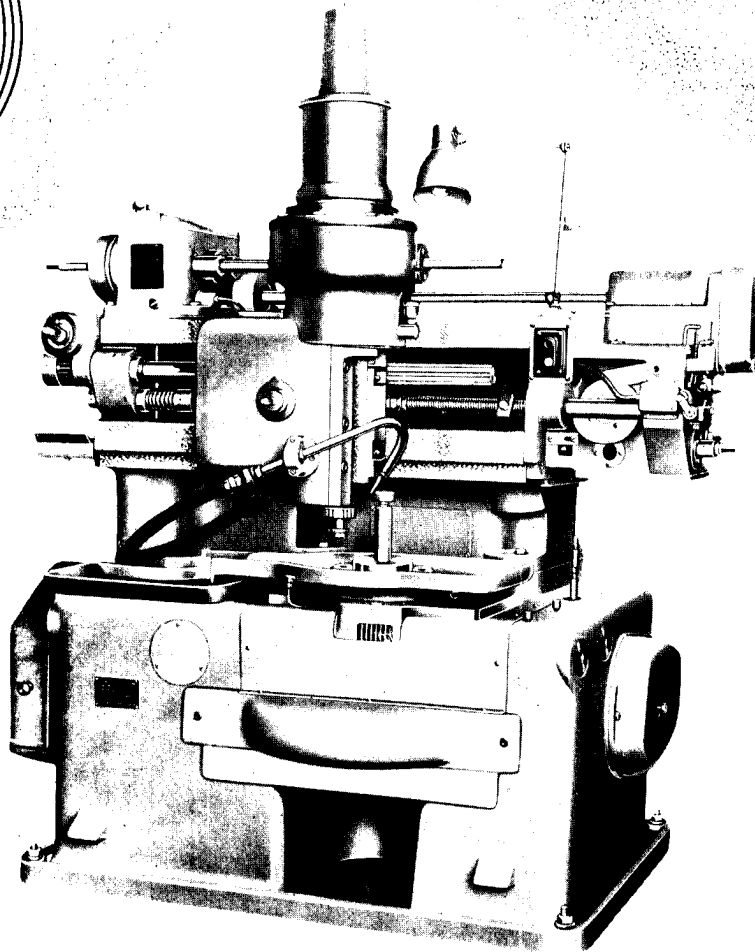
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(IMPORT — EXPORT)
ER-LI-KOW, SHIH-CHIAO, PEKING CHINA
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插齒機 SPUR GEAR MACHINE

MODEL
J-546



中國機械進口公司
CHINA NATIONAL MACHINERY IMPORT CORPORATION

(IMPORT - EXPORT)
ER-LI-KOW SHEN CHIAO, PEKING, CHINA
CABLE ADDRESS: MACHIMPORT, PEKING.

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SPUR GEAR SHAPING MACHINE

Model J546

This machine is used for shaping internal and external spur and helical gears.

The machine works on the generating principle of workpiece and cutter rolling together. It can be employed to cut helical gears when a special copying guide is fitted on the spindle of this machine.

This machine can also be used to cut gears such as stepcone gears, gears with shoulder, etc., which provide very little recess for the run out of cutter during cutting.

The number of reciprocating strokes and circular feeds of cutter are regulated by the gear box and the feeding box respectively. The indexing mechanism is controlled by means of change gears. The stroke of cutter can be adjusted by changing the position of set pin on the crank mechanism.

The teeth of the gear may be shaped by cutter in one, two, or three strokes. The number of strokes and the feeding rate of first, second, and third stroke are controlled by means of a special mechanism.

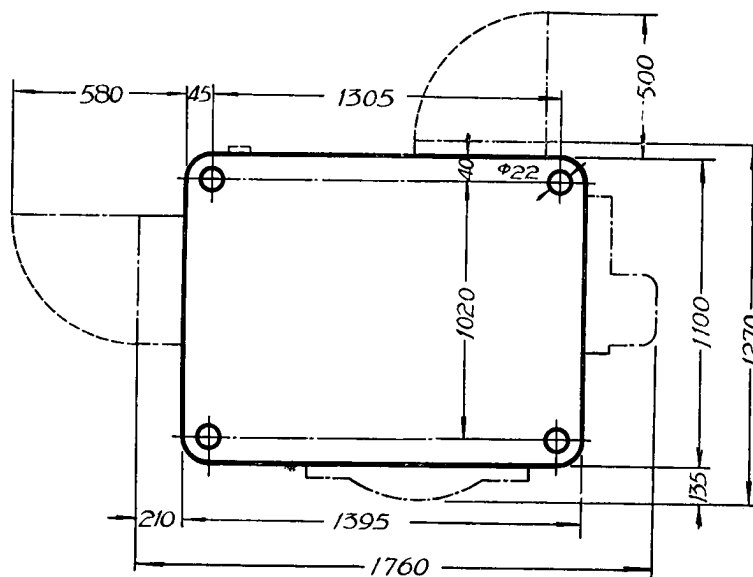
The directions of rotation of the cutter spindle and the working table are independent of each other.

SPECIFICATION

Min. and Max. module	2-6
Min. and Max. outside diameter of spur gear . . .	20-462 mm.
Max. outside diameter of helical gear (spiral angle 23°)	462 mm.
Max. outside diameter of internal gear	550 mm.
Max. face width of gear:	
External	105 mm.
Internal	75 mm.
Max. helix angle for helical gear	23°
Max. pitch diameter of gear:	
External	450 mm.
Internal (when cutter of 100 mm. dia. is used) . .	400 mm.
Max. distance between centres of work and cutter . .	350 mm.

Motors: 3-phase, A.C.

Main drive motor:	Power . . .	2.8 KW.
	Speed . . .	1440 rpm.
Motor for rapid revolving of table:	Power . . .	0.5 KW.
	Speed . . .	1410 rpm.
Coolant pump:	Power . . .	0.125 KW.
	Speed . . .	2800 rpm.
Overall dimension (L x W x H)	1760x1270x2060 mm.	
Net weight	3530 kg. approx.	



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